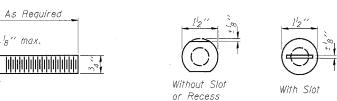
## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET	NO.	3
.A.P. 329	126BR-1	RANDOLPH		27	27	3 <b>s</b> н	3 SHEETS	
FED. ROAD DIST, NO. 7		ILLINOIS	MED. AID PROJECT-					

Contract #76898



DETAIL OF 34" \$ ROUND HEAD BOLT

SECTION B-B

HORNER & SHIFRIN, INC.

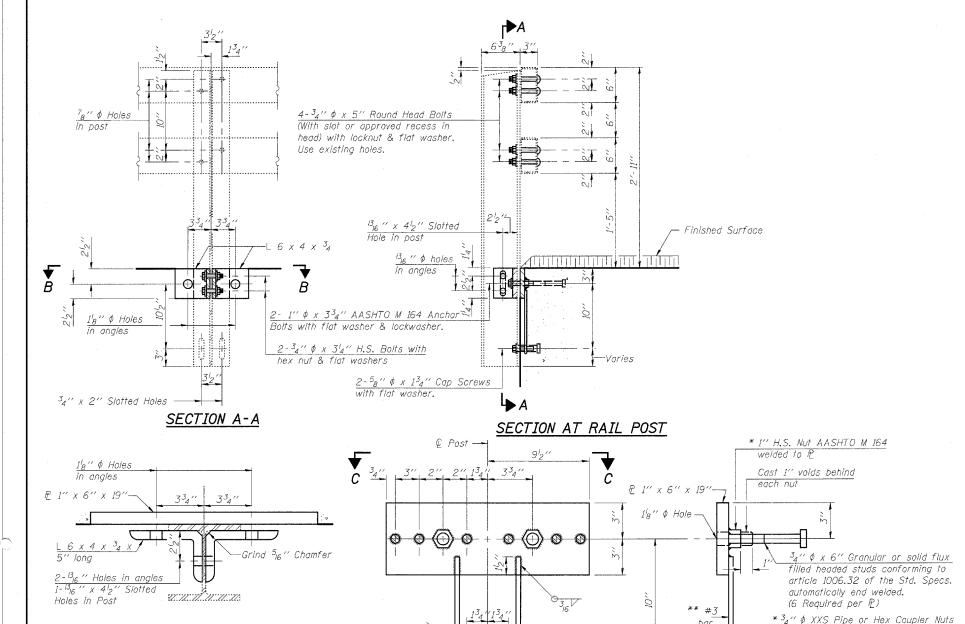
DESIGNED EML

CHECKED NJM

DRAWN EML

CHECKED NJM

VIEW D-D

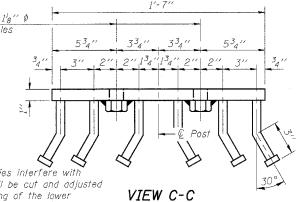


## ANCHOR DEVICE

- \* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
- \*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed \( \frac{1}{2} \).

conforming to AASHTO M291, Grade

A - 3" long welded to #3 bar and Tap pipe for  $^58$ "  $\phi$  Cap Screw.



STAGE I

STEEL BRIDGE RAIL

DECK BEAM REPLACEMENT DETAILS

S.B.I. ROUTE 154 OVER PLUM CREEK

RANDOLPH COUNTY

STRUCTURE NO. 079-0016

## <u>NOTES</u>

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts. cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

For multi-span bridges, sufficient  $^{l}_{4}{}^{\prime\prime}$  x 6 $^{\prime\prime}$  x 1 $^{\prime\prime}$ -2 $^{\prime\prime}$  galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Precast Prestressed Concrete Deck Beams (21 $^{\prime\prime}$  Depth) Special.

The  $^34''$   $\phi$  high strength bolts used to connect the 6 x 4 x  $^34$  angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1"  $\phi$  high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional  $^1_8$  turn. The  $^58''$   $\phi$  cap screws in bottom of posts shall be tightened to a snug fit only.

Cost of reinstalling existing posts and ralls, anchor devices and all accessories shall be included with Precast Prestressed Concrete Deck Beams (21" Depth) Special.

Remove and reinstall existing posts and existing rails.

For rail post spacing, see sheet 2 of 3.